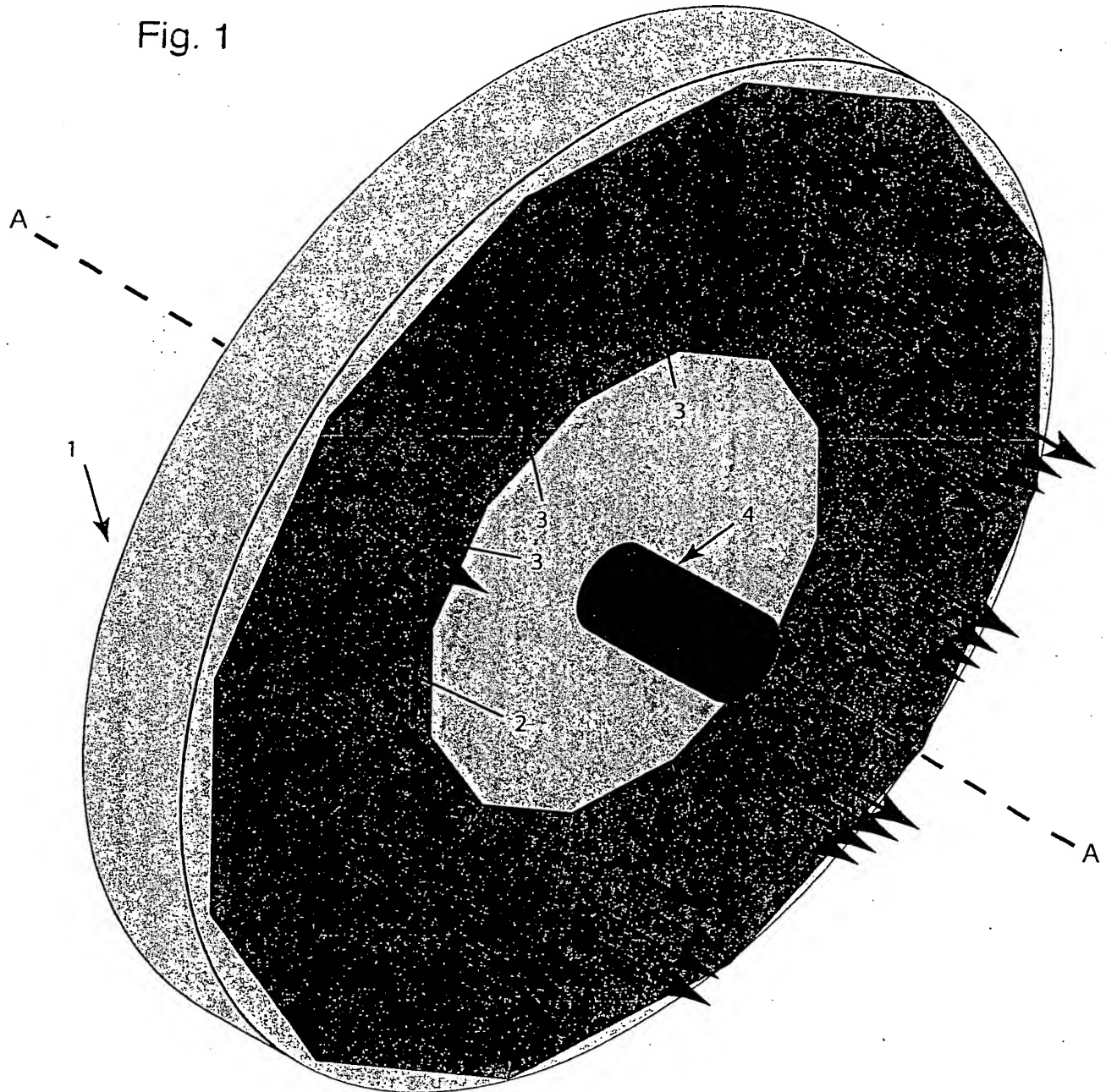




1/18

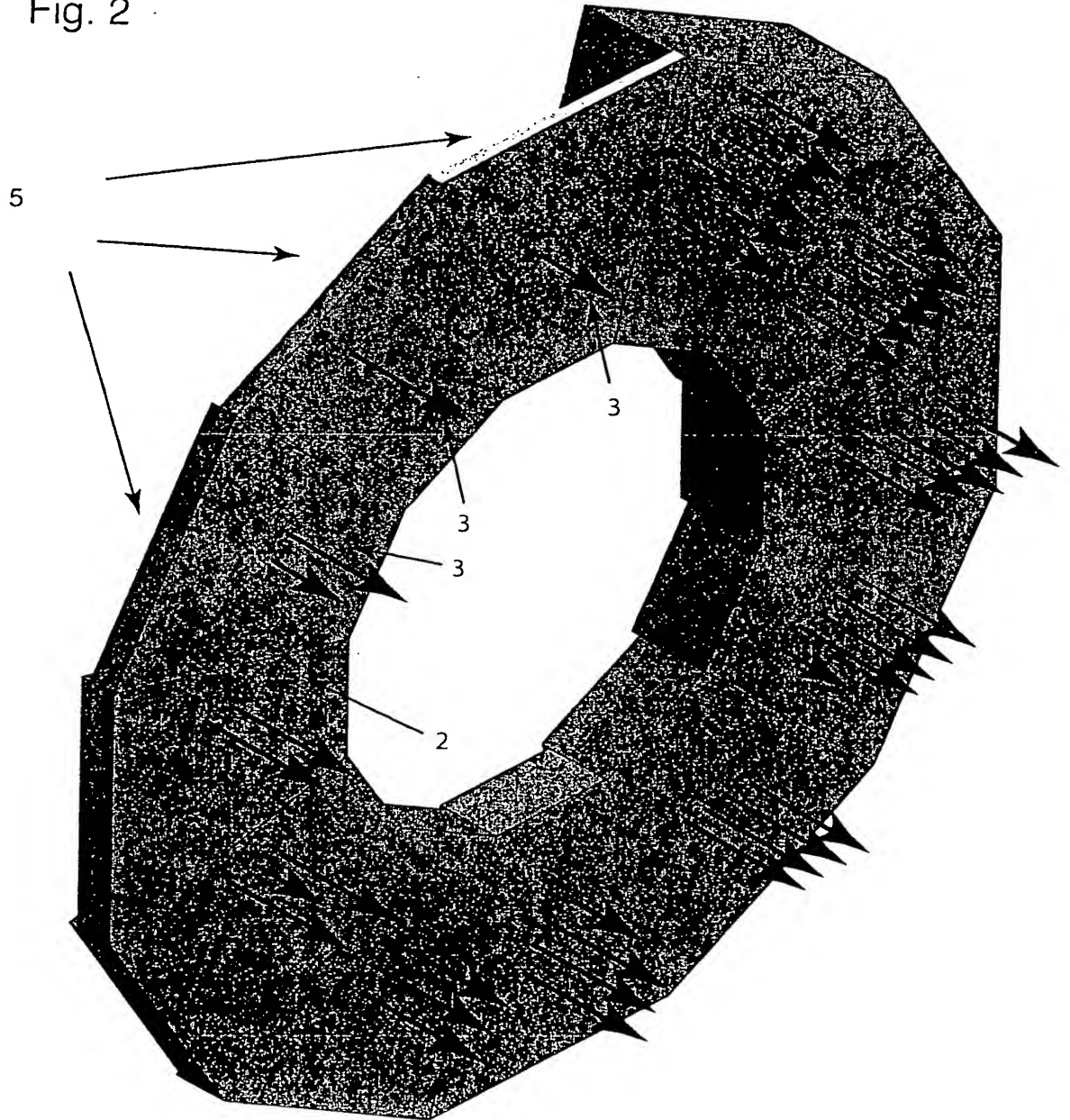
Fig. 1



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2/18

Fig. 2



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4/18

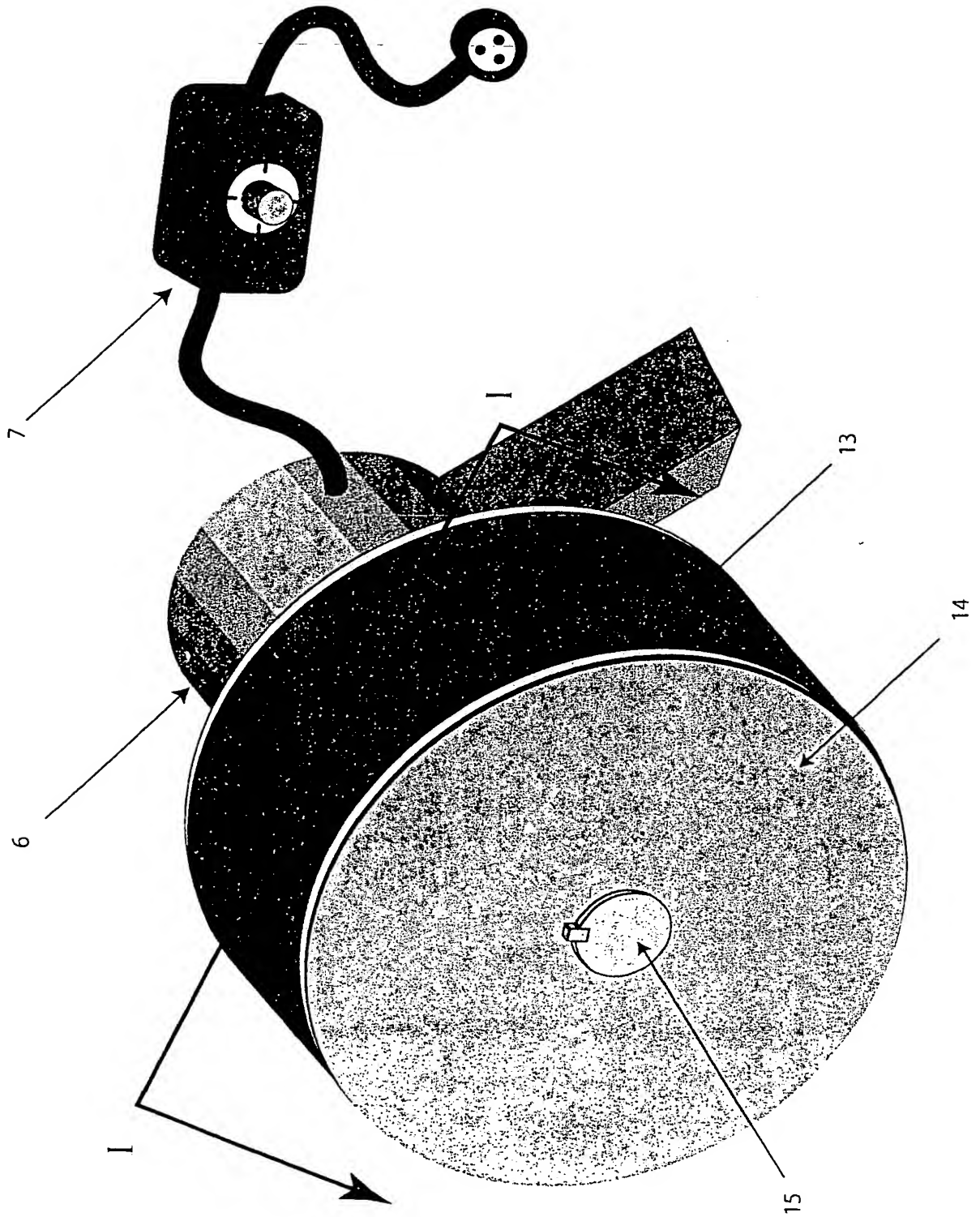


Fig. 4

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9/18

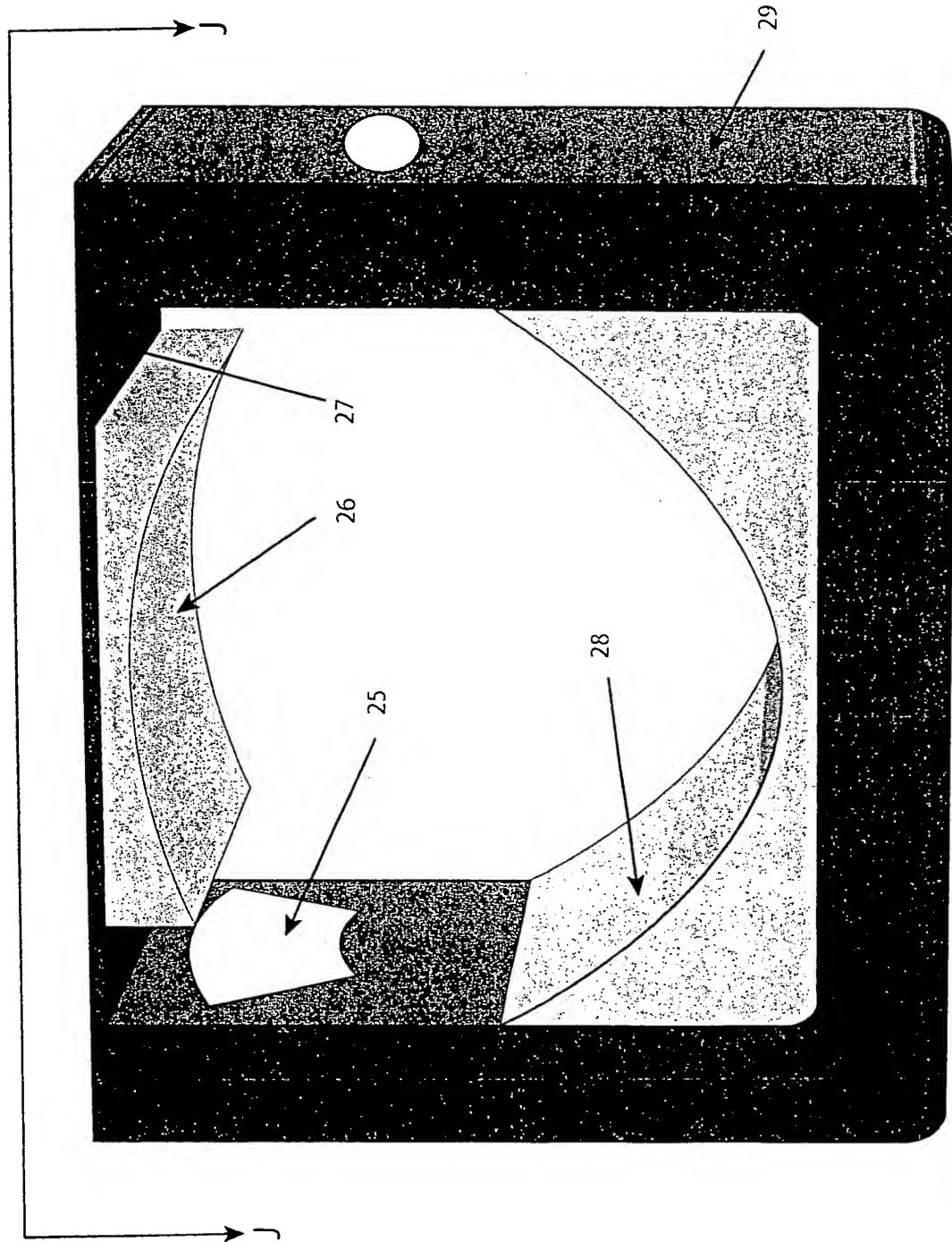


Fig. 9

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**Lables:**

$L$  is the inductance of the Power Coil

$R_1$  is the resistance of the Power Coil

$R_r$  is the high resistance of the decay circuit

$D$  is the blocking diode preventing reverse current flow

IGBT is a high speed gate that opens and closes the circuit

13/18

FIG. 13A

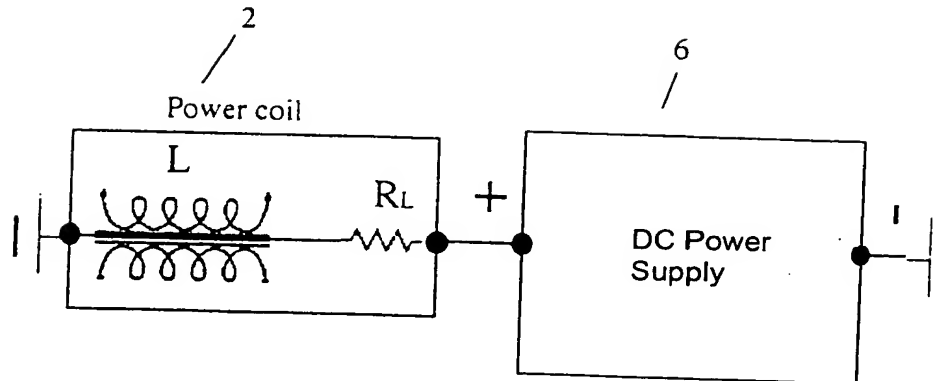


FIG. 13B

